

BBBBBBBBBBBB		AAAAAAA		SSSSSSSSSS		RRRRRRRRRR		TTTTTTTTTT		LLL
BBBBBBBBBBBB		AAAAAAA		SSSSSSSSSS		RRRRRRRRRR		TTTTTTTTTT		LLL
BBBBBBBBBBBB		AAAAAAA		SSSSSSSSSS		RRRRRRRRRR		TTTTTTTTTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRRRRRRRRR		TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRRRRRRRRR		TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRRRRRRRRR		TTT		LLL
BBB	BBB	AAAAAAAAAAAA			SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAAAAAAAAAAA			SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAAAAAAAAAAA			SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRR	RRR	TTT		LLLLLLLLLLLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRR	RRR	TTT		LLLLLLLLLLLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRR	RRR	TTT		LLLLLLLLLLLL

BBBBBBBB BBBBBBBB BB BB BB BB BBBBBBBB BBBBBBBB BB BB BB BB BBBBBBBB BBBBBBBB	AAAAAA AAAAAA AA AA AA AA AA AAAAAAA AAAAAAA AA AA AA AA	SSSSSSSS SSSSSSSS SS SS SS SS SSSSSS SSSSSS SS SS SS SS SSSSSS SSSSSS	RRRRRRRR RRRRRRRR RR RR RR RR RRRRRRRR RRRRRRRR RR RR RR RR RR RR RR	IIIIII IIIIII II II II II II II II II II IIIIII IIIIII	GGGGGGGG GGGGGGGG GG GG GG GG GG GGGGGG GGGGGG GG GGGGGG GGGGGG GGGGGG	HH HH HH HH HH HH HH HH HH HH HH HH HH HH	HH HH HH HH HH HH HH HH HH HH HH HH HH HH	TTTTTTTTTT TTTTTTTTTT TT TT TT TT TT TT TT TT TT TT TT TT TT	.... .... .... ....
LL LL LL LL LL LL LL LL LL LL LLLLLLLLLL LLLLLLLLLL	IIIIII IIIIII II II II II II II II II IIIIII IIIIII	SSSSSSSS SSSSSSSS SS SS SS SS SSSSSS SSSSSS SS SS SS SS SSSSSS SSSSSS							

```

1 0001 0 MODULE BASRIGHT (
2 0002 0 IDENT = '1-006'
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 **
31 0031 1 FACILITY: String support library
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 This module extracts a substring according to the
36 0036 1 BASIC-PLUS-2 syntax. It finds the substring of a main string
37 0037 1 starting at the character position specified by the input parameter
38 0038 1 and continues through the last character of the string. This
39 0039 1 substring is copied to the destination string.
40 0040 1
41 0041 1 ENVIRONMENT: User mode, AST level or not or mixed
42 0042 1
43 0043 1 AUTHOR: R. Will, CREATION DATE: 19-Feb-79
44 0044 1
45 0045 1 MODIFIED BY:
46 0046 1
47 0047 1 R. Will, 19-Feb-79: VERSION 01
48 0048 1 01 - original
49 0049 1 02 - change linkage and call to COPY routine. 15-mar-79
50 0050 1 1-003 - Change string linkages to start with STR$. JBS 04-JUN-1979
51 0051 1 1-004 - Change call to STR$COPY. JBS 16-JUL-1979
52 0052 1 1-005 - Define an aux variable to improve the code generated.
53 0053 1 JBS 11-OCT-1979
54 0054 1 1-006 - CALL STRRIGHT, DELETE THIS MODULE WHEN COMPILER CALLS STR. RW 1-Nov-79
55 0055 1 --
56 0056 1
57 0057 1 !<BLF/PAGE>

```

! Extract the substring of the BASIC RIGHT  
! File: BASRIGHT.B32



```

: 59      0058 1 |
: 60      0059 1 | SWITCHES:
: 61      0060 1 |
: 62      0061 1 |
: 63      0062 1 | SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
: 64      0063 1 |
: 65      0064 1 |
: 66      0065 1 | LINKAGES:
: 67      0066 1 |
: 68      0067 1 |
: 69      0068 1 |
: 70      0069 1 | TABLE OF CONTENTS:
: 71      0070 1 |
: 72      0071 1 |
: 73      0072 1 | FORWARD ROUTINE
: 74      0073 1 |     BAS$RIGHT : NOVALUE;           ! Find the RIGHT of a string
: 75      0074 1 |
: 76      0075 1 |
: 77      0076 1 | INCLUDE FILES:
: 78      0077 1 |
: 79      0078 1 |
: 80      0079 1 | REQUIRE 'RTLIN:RTLPSECT';         ! Declare PSECTs code
: 81      0174 1 |
: 82      0175 1 |
: 83      0176 1 | MACROS:
: 84      0177 1 |
: 85      0178 1 |
: 86      0179 1 | EQUATED SYMBOLS:
: 87      0180 1 |
: 88      0181 1 |
: 89      0182 1 | PSECT DECLARATIONS
: 90      0183 1 |
: 91      0184 1 | DECLARE_PSECTS (BAS);
: 92      0185 1 |
: 93      0186 1 | OWN STORAGE:
: 94      0187 1 |
: 95      0188 1 |
: 96      0189 1 | EXTERNAL REFERENCES:
: 97      0190 1 |
: 98      0191 1 |
: 99      0192 1 | EXTERNAL ROUTINE
100      0193 1 |     STR$RIGHT;           ! Routine to do the copy
101      0194 1 |

```

```
103 0195 1 GLOBAL ROUTINE BAS$RIGHT (
104 0196 1     DEST_DESC,
105 0197 1     SRC_DESC,
106 0198 1     CHAR_POS
107 0199 1 ) : NOVALUE =
108 0200 1
109 0201 1
110 0202 1 ++
111 0203 1 FUNCTIONAL DESCRIPTION:
112 0204 1     This routine extracts the characters starting at the
113 0205 1     character position in the source string specified by the input
114 0206 1     parameter and continuing through the last character of the source
115 0207 1     string and copies that substring
116 0208 1     to the destination string (by JSB to STR$$COPY_R_R8) according
117 0209 1     to the syntax of the class of the destination string.
118 0210 1     If the input character position is < 2 then the entire source
119 0211 1     string is copied. If the input character position is > the length
120 0212 1     of the source string, then the destination string becomes a null
121 0213 1     string.
122 0214 1
123 0215 1 FORMAL PARAMETERS:
124 0216 1
125 0217 1     DEST_DESC.wt.dx    pointer to destination string descriptor
126 0218 1     SRC_DESC.rt.dx     pointer to source string descriptor
127 0219 1     CHAR_POS.rw.v     character position in src to start substring
128 0220 1
129 0221 1 IMPLICIT INPUTS:
130 0222 1
131 0223 1     NONE
132 0224 1
133 0225 1 IMPLICIT OUTPUTS:
134 0226 1
135 0227 1     NONE
136 0228 1
137 0229 1 ROUTINE VALUE:
138 0230 1 COMPLETION CODES:
139 0231 1
140 0232 1     NONE
141 0233 1
142 0234 1 SIDE EFFECTS:
143 0235 1
144 0236 1     NONE
145 0237 1
146 0238 1 --
147 0239 1
148 0240 2 BEGIN
149 0241 2
150 0242 2 MAP
151 0243 2     DEST_DESC : REF BLOCK [8,BYTE];
152 0244 2
153 0245 2 MAP
154 0246 2     SRC_DESC : REF BLOCK [8,BYTE];
155 0247 2
156 0248 2 STR$RIGHT (DEST_DESC [0,0,0,0], SRC_DESC [0,0,0,0], CHAR_POS);
157 0249 2 RETURN;
158 0250 1 END;                                !End of BAS$RIGHT
```

BASSRIGHT  
1-006

D 15  
16-Sep-1984 01:06:03  
14-Sep-1984 11:56:36

VAX-11 Bliss-32 V4.0-742  
[BASRTL.SRC]BASRIGHT.B32;1

Page 4  
(3)

.TITLE BASSRIGHT  
.IDENT \1-006\  
.EXTRN STR\$RIGHT  
.PSECT \_BASSCODE,NOWRT, SHR, PIC,2  
.ENTRY BASSRIGHT, Save nothing  
PUSHAB CHAR\_POS  
MOVQ DEST\_DESC, -(SP)  
CALLS #3, STR\$RIGHT  
RET

: 0195  
: 0248  
: 0250

00000000G 7E 00  
0C AC 9F 00002  
04 AC 7D 00005  
03 FB 00009  
04 00010

; Routine Size: 17 bytes, Routine Base: \_BASSCODE + 0000

: 159 0251 1  
: 160 0252 1 END  
: 161 0253 1  
: 162 0254 0 ELUDOM

!End of module

#### PSECT SUMMARY

Name	Bytes	Attributes
_BASSCODE	17	NOVEC,NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

#### COMMAND QUALIFIERS

; BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:BASRIGHT/OBJ=OBJ\$:BASRIGHT MSRC\$:BASRIGHT/UPDATE=(ENH\$:BASRIGHT)  
; Size: 17 code + 0 data bytes  
; Run Time: 00:01.8  
; Elapsed Time: 00:05.5  
; Lines/CPU Min: 8659  
; Lexemes/CPU-Min: 22500  
; Memory Used: 18 pages  
; Compilation Complete



0030 AH-BT13A-SE  
VAX/VMS V4.0

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